```
=> file registry
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                                  0.21          0.21

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STRUCTURE FILE UPDATES:    4 JAN 2006  HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES:   4 JAN 2006  HIGHEST RN 871209-00-6

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   conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s gaactgctcggc/sqen
            0 GAACTGCTCGGC/SQEN
       191890 SQL=12
L1          0 GAACTGCTCGGC/SQEN
                (GAACTGCTCGGC/SQEN AND SQL=12)

=> s gaactgctcggc/sqsn and SQL<375
SYSTEM LIMITS EXCEEDED - SEARCH ENDED
The search profile you entered was too complex or gave too many
answers.  Simplify or subdivide the query and try again.  If you have
exceeded the answer limit, enter DELETE HISTORY at an arrow prompt
(=>) to remove all previous answers sets and begin at L1.  Use the
SAVE command to store any important profiles or answer sets before
using DELETE HISTORY.

=> s gaactgctcggc/sqsn
L2       2596 GAACTGCTCGGC/SQSN

=> s 12 and SQL<375
```

```
        21530848 SQL<375
L3          102 L2 AND SQL<375


=> file caplus; s 12 and PY<1990
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY        SESSION
FULL ESTIMATED COST               .          42.02         42.23
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FILE 'CAPLUS' ENTERED AT 11:48:25 ON 06 JAN 2006
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of this information, without the prior written consent of CAS, is
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FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html


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        903 L2
    13074835 PY<1990
L4          8 L2 AND PY<1990


=> d bib ab 1-8
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L4   ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653 CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
     (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
     CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 171237	A	19920822	IN 1990-CA801	19900917
	AU 8927967	A1	19890614	AU 1989-27967	19881118
	AU 624105	B2	19920604		
	ZA 8808669	A	19890830	ZA 1988-8669	19881118
	BR 8807310	A	19900313	BR 1988-7310	19881118
	DD 287104	A5	19910214	DD 1988-321971	19881118
	IN 169067	A	19910831	IN 1988-CA960	19881118
	DD 298524	A5	19920227	DD 1988-344401	19881118

3

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CN 1073719       A    19930630   CN 1992-110257        19881118
CN 1074422       B    20011107
JP 05081600      B4   19931115   JP 1989-500565        19881118
JP 09184844      A2   19970715   JP 1996-239921        19881118
JP 10108674      A2   19980428   JP 1997-99651         19881118
JP 10290696      A2   19981104   JP 1998-111631        19881118
JP 10290697      A2   19981104   JP 1998-111632        19881118
JP 2000023683    A2   20000125   JP 1999-157193        19881118
RU 2162894       C2   20010210   RU 1988-4742221       19881118
FI 8903447       A    19890717   FI 1989-3447          19890717
FI 105652        B1   20000929
NO 8902931       A    19890913   NO 1989-2931          19890717
NO 304990        B1   19990315
DK 8903537       A    19890718   DK 1989-3537          19890718
DK 175975        B1   20051010
KR 138776        B1   19980515   KR 1989-701343        19890718
IN 171238        A    19920822   IN 1990-CA802         19900917
IN 171239        A    19920822   IN 1990-CA805         19900917
IN 171240        A    19920822   IN 1990-CA808         19900917
WO 9115771       A1   19911017   WO 1991-US2225        19910329
      W:  AU, BB, BG, BR, CA, FI, GB, HU, JP, KP, KR, LK, MC, MG, MW, NO,
          PL, RO, SD, SU
      RW: BF, BJ, CF, CG, CM, GA, ML, MR, SN, TD, TG
AU 9176510       A1   19911030   AU 1991-76510         19910329
AU 639560        B2   19930729
GB 2257784       A1   19930120   GB 1992-20480         19910329
BR 9106309       A    19930420   BR 1991-6309          19910329
HU 62706         A2   19930528   HU 1992-3146          19910329
HU 217025        B    19991129
JP 05508219      T2   19931118   JP 1991-507636        19910329
JP 2733138       B2   19980330
RO 109916        B1   19950728   RO 1975-92012         19910329
PL 172133        B1   19970829   PL 1991-296329        19910329
RU 2130969       C1   19990527   RU 1991-5053084       19910329
EP 450931        A1   19911009   EP 1991-302910        19910403
EP 450931        B1   19960612
      R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
EP 693687        A1   19960124   EP 1995-114016        19910403
EP 693687        B1   19990728
      R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
AT 139343        E    19960615   AT 1991-302910        19910403
ES 2088465       T3   19960816   ES 1991-302910        19910403
AT 182684        E    19990815   AT 1995-114016        19910403
ES 2134388       T3   19991001   ES 1995-114016        19910403
US 5683864       A    19971104   US 1992-910760        19920707
FI 106317        B1   20010115   FI 1992-4349          19920928
NO 9203839       A    19921119   NO 1992-3839          19921001
NO 310241        B1   20010611
US 5714596       A    19980203   US 1993-40564         19930331
LV 10306         B    19950620   LV 1993-442           19930531
LV 10344         B    19960220   LV 1993-4381          19930531
US 5679342       A    19971021   US 1993-97853         19930727
US 5350671       A    19940927   US 1993-103961        19930809
LT 3808          B    19960325   LT 1993-1747          19931230
HR 940493        B1   20001031   HR 1994-940493        19940907
US 5698390       A    19971216   US 1994-306472        19940915
US 6074816       A    20000613   US 1994-307273        19940916
US 5712087       A    19980127   US 1995-440519        19950512
US 6312889       B1   20011106   US 1995-440549        19950512
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        US 5712088          A    19980127    US 1995-440769      19950515
        US 6096541          A    20000801    US 1995-441026      19950515
        US 6171782          B1   20010109    US 1995-442647      19950515
        US 6861212          B1   20050301    US 1995-441355      19950515
        US 5863719          A    19990126    US 1995-472821      19950607
        NO 9505101          A    19951215    NO 1995-5101        19951215
        NO 306511           B1   19991115
        NO 9505102          A    19951215    NO 1995-5102        19951215
        NO 303879           B1   19980914
        US 2003162167       A1   20030828    US 1996-686983      19960725
        JP 09173079         A2   19970708    JP 1996-241451      19960822
        JP 3171793          B2   20010604
        FI 9801380          A    19980615    FI 1998-1380        19980615
        FI 106564           B1   20010228
        GR 3031361          T3   20000131    GR 1999-402455      19990929
        DK 200501169        A5   20050819    DK 2005-1169        20050819
PRAI    US 1987-122714      A    19871118
        IN 1988-CA960       A    19881118
        US 1987-139886      A    19871230
        US 1988-161072      A    19880226
        US 1988-191263      A    19880506
        US 1988-263584      A    19881026
        US 1988-271450      A    19881114
        CN 1988-107988      A    19881118
        JP 1992-361785      A3   19881118
        JP 1992-361787      A3   19881118
        JP 1993-178446      A3   19881118
        JP 1996-241451      A3   19881118
        JP 1998-111631      A3   19881118
        WO 1988-US4125      A    19881118
        YU 1988-2138        A6   19881118
        US 1989-325338      B2   19890317
        US 1989-341334      B2   19890420
        US 1989-353896      B2   19890421
        US 1989-355002      B2   19890518
        US 1989-355961      B2   19890518
        NO 1989-2931        A    19890717
        DK 1989-3537        A    19890718
        US 1989-398667      B2   19890825
        US 1989-456637      B2   19891221
        US 1990-504352      A    19900404
        US 1990-505435      B2   19900404
        US 1990-566209      B1   19900808
        US 1990-611965      B2   19901108
        WO 1991-US2225      A    19910329
        EP 1991-302910      A3   19910403
        US 1992-910760      A3   19920707
        US 1993-40564       A3   19930331
        US 1993-103961      A1   19930809
        US 1994-306472      A3   19940915
        US 1994-307273      A3   19940916
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AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope, a pH buffer, a detection label, assay instructions, and packaging. Also provided are polynucleotide probes for detection of HCV nucleic acids, a monoclonal antibody to an HCV epitope for detection of HCV antigens by immunoassay, and vaccines comprising immunogenic peptides contg. an HCV epitope for treatment of HCV infections. The sequence of HCV cDNA suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used to generate a λ-gt11 cDNA library which was screened for prodn. of epitopes which bound to serum from patients with non-A, non-B hepatitis. The cDNAs of several clones were sequenced and used to derive a composite

sequence; the corresponding polypeptides were expressed in Escherichia coli as fusion products with superoxide dismutase.

L4   ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1990:173651 CAPLUS
DN   112:173651
TI   Manufacture of recombinant proteins by Escherichia coli using chimeras of the kdsB gene
IN   Bolling, Timothy Jon; Mandecki, Wlodzimierz
PA   Abbott Laboratories, USA
SO   Eur. Pat. Appl., 29 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 331961	A2	19890913	EP 1989-102928	19890220
EP 331961	A3	19900704		
EP 331961	B1	19951220		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5124255	A	19920623	US 1988-276263	19881123
AT 131876	E	19960115	AT 1989-102928	19890220
ES 2083957	T3	19960501	ES 1989-102928	19890220
AU 8931206	A1	19890914	AU 1989-31206	19890310
AU 625554	B2	19920716		
JP 02035089	A2	19900205	JP 1989-59466	19890310
JP 08013273	B4	19960214		
CA 1335358	A1	19950425	CA 1989-593373	19890310
PRAI US 1988-167067	A	19880311		
US 1988-276263	A	19881123		

AB   Chimeric genes contg. sequences of the Escherichia coli kdsB gene, encoding CTP:CMP-3-deoxy-manno-octulosonate cytidylyl transferase (CKS, CMP-KDO synthetase, E.C. 2.7.7.38), under the control of a modified lac promoter are used to prep. fusion proteins. This system produces the fusion protein as up to 50% of total cellular protein. A chimeric gene for CKS and HIV p41 (env) protein was constructed using the sequence for the antigenic region of amino acids 548-646 and an appropriate linker. Transformants carrying the plasmids were grown in the presence of iso-Pr thiogalactoside for 3 h. Cell lysates were fractionated by SDS-PAGE and a band corresponding to the fusion protein was visible on Coomassie-stained gels. Western blotting using a goat anti-CKS antibody detected the protein at antibody dilns. of 1:1500.

L4   ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1990:152619 CAPLUS
DN   112:152619
TI   Cloning and sequencing of the gltX gene, encoding the glutamyl-tRNA synthetase of Rhizobium meliloti A2
AU   Laberge, Serge; Gagnon, Yves; Bordeleau, Lucien M.; Lapointe, Jacques
CS   Fac. Sci. Genie, Univ. Laval, Quebec, QC, G1K 7P4, Can.
SO   Journal of Bacteriology (1989), 171(7), 3926-32
     CODEN: JOBAAY; ISSN: 0021-9193
DT   Journal
LA   English
AB   The gltX gene, coding for glutamyl-tRNA synthetase of R. meliloti A2, was cloned by using as probe a synthetic oligonucleotide corresponding to the amino acid sequence of a segment of the glutamyl-tRNA synthetase. The codons chosen for this 42-mer were those most frequently used in a set of R. meliloti genes. DNA sequence anal. revealed an open reading frame of

484 codons, encoding a polypeptide of Mr 54,166 contg. the amino acid
sequences of an NH2-terminal and various internal fragments of the enzyme.
Compared with the amino acid sequence of the glutamyl-tRNA synthetase of
Escherichia coli, the N-terminal third of the R. meliloti enzyme was
strongly conserved (52% identity); the second shift was moderately
conserved (38% identity) and included a few highly conserved segments,
whereas no significant similarity was found in the C-terminal third.
These results suggest that the C-terminal part of the protein is probably
not involved in the recognition of substrates, a feature shared with other
aminoacyl-tRNA synthetases.

L4   ANSWER 4 OF 8   CAPLUS   COPYRIGHT 2006 ACS on STN
Full Text
AN   1990:31260   CAPLUS
DN   112:31260
TI   Sequence determination and characterization of the replicator region in
      the tumor-inducing plasmid pTiB6S3
AU   Tabata, Satoshi; Hooykaas, Paul J. J.; Oka, Atsuhiro
CS   Fac. Sci., Nagoya Univ., Aichi, 464, Japan
SO   Journal of Bacteriology (1989), 171(3), 1665-72
      CODEN: JOBAAY; ISSN: 0021-9193
DT   Journal
LA   English
AB   The replicator region of the 195-kilobase-pair (kb) tumor-inducing plasmid
      pTiB6S3 was previously identified by isolation of a 6.8-kb miniplasmid.
      This miniplasmid was joined to ColE1-based vectors and subjected to
      mutagenesis. The resulting mutant plasmids were examd. for their ability
      to replicate autonomously in Agrobacterium tumefaciens. A 4.2-kb region
      was sufficient for displaying replication characteristics similar to those
      of the parental pTiB6S3. Nucleotide sequence anal. of this 4.2-kb region
      revealed the presence of 3 possible reading frames in the same direction
      (repA, repB, and repC). Proteins coded for by these frames were
      identified by in vitro synthesis in a coupled transcription-translation
      system. The replicating ability became attenuated by repA and repB
      mutations but was completely abolished by repC mutations. The size,
      arrangement, and mutational effects of the 3 rep genes were quite similar
      to those of the rep genes that were previously identified in the hairy
      root-inducing plasmid pRiA4b. However, defects caused by rep mutations in
      one plasmid were unable to be complemented by corresponding functions in
      the other plasmid.

L4   ANSWER 5 OF 8   CAPLUS   COPYRIGHT 2006 ACS on STN
Full Text
AN   1989:451313   CAPLUS
DN   111:51313
TI   Nucleotide sequence and characterization of toxR: a gene involved in
      exotoxin A regulation of Pseudomonas aeruginosa [Erratum to document cited
      in CA107(1):1681n]
AU   Wozniak, D. J.; Cram, D. C.; Daniels, C. J.; Galloway, D. R.
CS   Dep. Microbiol., Ohio State Univ., Columbus, OH, 43210, USA
SO   Nucleic Acids Research (1989), 17(8), 3334
      CODEN: NARHAD; ISSN: 0305-1048
DT   Journal
LA   English
AB   An error in the original sequence in Figure 5 has been cor. The reading
      frame now becomes 260 codons and could encode a protein of 28,825 daltons,
      not 225 codons and 24,626 daltons as reported in the original article.
      The error was reflected in the abstr.

L4   ANSWER 6 OF 8   CAPLUS   COPYRIGHT 2006 ACS on STN
Full Text
AN   1988:605812   CAPLUS

```
DN    109:205812
TI    Characterization of a gene that regulates toxin A synthesis in Pseudomonas
      aeruginosa
AU    Hindahl, Michael S.; Frank, Dara W.; Hamood, Abdul; Iglewski, Barbara H.
CS    Med. Cent., Univ. Rochester, Rochester, NY, 14642, USA
SO    Nucleic Acids Research (1988), 16(12), 5699
      CODEN: NARHAD; ISSN: 0305-1048
DT    Journal
LA    English
AB    The pos. regulatory gene regA of P. aeruginosa, which increases exotoxin A
      prodn., was subcloned from plasmid pFHK10 where it resided on a 3-kilobase
      XhoI fragment from PA103 chromosomal DNA.  Comparison of the regA gene
      sequence and previously published sequence data for the same gene (denoted
      toxR) revealed several notable nucleotide base differences and different
      start and stop sites for the coding region, resulting in a protein with a
      predicted mol. wt. of 27,755.
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L4    ANSWER 7 OF 8  CAPLUS  COPYRIGHT 2006 ACS on STN
Full Text
AN    1987:401681  CAPLUS
DN    107:1681
TI    Nucleotide sequence and characterization of toxR:  a gene involved in
      exotoxin A regulation of Pseudomonas aeruginosa
AU    Wozniak, D. J.; Cram, D. C.; Daniels, C. J.; Galloway, D. R.
CS    Dep. Microbiol., Ohio State Univ., Columbus, OH, 43210, USA
SO    Nucleic Acids Research (1987), 15(5), 2123-35
      CODEN: NARHAD; ISSN: 0305-1048
DT    Journal
LA    English
AB    The P. aeruginosa gene toxR, regulates the expression of the exotoxin A
      (ETA) structural gene toxA.  The toxR gene was transferred to a
      high-copy-no. plasmid (pGW28).  Nucleotide sequence anal. of pGW28
      revealed a 675-bp open reading frame (225 codons) which could encode for a
      protein of 24,626 daltons.  Using S1 nuclease mapping, the toxR RNA
      transcript was shown to originate 20 bp upstream of the presumptive
      translation initiation codon.  Expts. using a toxA-specific probe revealed
      that the toxR gene product regulates the expression of ETA at the
      transcriptional level.
```

```
L4    ANSWER 8 OF 8  CAPLUS  COPYRIGHT 2006 ACS on STN
Full Text
AN    1987:1203  CAPLUS
DN    106:1203
TI    Transcription and processing signals in the 3-phosphoglycerate kinase
      (PGK) gene from Aspergillus nidulans
AU    Clements, J. M.; Roberts, C. F.
CS    Dep. Genet., Univ. Leicester, Leicester, LE1 7RH, UK
SO    Gene (1986), 44(1), 97-105
      CODEN: GENED6; ISSN: 0378-1119
DT    Journal
LA    English
AB    The 3-phosphoglycerate kinase  [9001-83-6] gene from A. nidulans contains
      2 57-base-pair (bp) introns and codes for a 421-amino acid protein with
      considerable homol. to the Saccharomyces cerevisiae (68%) and mammalian
      (64%) proteins.  Almost total conservation is found in Aspergillus of
      residues thought to be important to the structure and function of the
      yeast enzyme, and the introns fall between coding sequences for postulated
      structures in the N-domain.  The strong codon preference found is more
      similar to that in other filamentous fungi than in yeast.  The
      transcription start point (+1) was 32 bp upstream from the start codon,
      and the promoter region contains potential homologies for CAAT (-80 bp)
      and TATA (-30 bp) sequences and certain other features common to other
```

highly expressed genes in ascomycetes. There are 3 major termini 23, 83,
and 115 bp beyond the stop codon, and 2 of these are preceded by the
polyadenylation consensus sequence and contain potential secondary
structure.

=> d bib ab hitseq hitstr 1-8

L4   ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653 CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
      (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
      CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 171237	A	19920822	IN 1990-CA801	19900917
	AU 8927967	**A1**	**19890614**	**AU 1989-27967**	**19881118**
	AU 624105	B2	19920604		
	ZA 8808669	**A**	**19890830**	**ZA 1988-8669**	**19881118**
	BR 8807310	A	19900313	BR 1988-7310	19881118
	DD 287104	A5	19910214	DD 1988-321971	19881118
	IN 169067	A	19910831	IN 1988-CA960	19881118
	DD 298524	A5	19920227	DD 1988-344401	19881118
	DD 298525	A5	19920227	DD 1988-344402	19881118
	DD 298526	A5	19920227	DD 1988-344403	19881118
	DD 298527	A5	19920227	DD 1988-344404	19881118
	CN 1073719	A	19930630	CN 1992-110257	19881118
	CN 1074422	B	20011107		
	JP 05081600	B4	19931115	JP 1989-500565	19881118
	JP 09184844	A2	19970715	JP 1996-239921	19881118
	JP 10108674	A2	19980428	JP 1997-99651	19881118
	JP 10290696	A2	19981104	JP 1998-111631	19881118
	JP 10290697	A2	19981104	JP 1998-111632	19881118
	JP 2000023683	A2	20000125	JP 1999-157193	19881118
	RU 2162894	C2	20010210	RU 1988-4742221	19881118
	FI 8903447	**A**	**19890717**	**FI 1989-3447**	**19890717**
	FI 105652	B1	20000929		
	NO 8902931	**A**	**19890913**	**NO 1989-2931**	**19890717**
	NO 304990	B1	19990315		
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	DK 175975	B1	20051010		
	KR 138776	B1	19980515	KR 1989-701343	19890718
	IN 171238	A	19920822	IN 1990-CA802	19900917
	IN 171239	A	19920822	IN 1990-CA805	19900917
	IN 171240	A	19920822	IN 1990-CA808	19900917
	WO 9115771	A1	19911017	WO 1991-US2225	19910329

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              PL, RO, SD, SU
          RW: BF, BJ, CF, CG, CM, GA, ML, MR, SN, TD, TG
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	AU 9176510	A1	19911030	AU 1991-76510	19910329
	AU 639560	B2	19930729		
	GB 2257784	A1	19930120	GB 1992-20480	19910329
	BR 9106309	A	19930420	BR 1991-6309	19910329
	HU 62706	A2	19930528	HU 1992-3146	19910329

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       HU 217025              B      19991129
       JP 05508219            T2     19931118    JP 1991-507636           19910329
       JP 2733138             B2     19980330
       RO 109916              B1     19950728    RO 1975-92012            19910329
       PL 172133              B1     19970829    PL 1991-296329           19910329
       RU 2130969             C1     19990527    RU 1991-5053084          19910329
       EP 450931              A1     19911009    EP 1991-302910           19910403
       EP 450931              B1     19960612
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
       EP 693687              A1     19960124    EP 1995-114016           19910403
       EP 693687              B1     19990728
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
       AT 139343              E      19960615    AT 1991-302910           19910403
       ES 2088465             T3     19960816    ES 1991-302910           19910403
       AT 182684              E      19990815    AT 1995-114016           19910403
       ES 2134388             T3     19991001    ES 1995-114016           19910403
       US 5683864             A      19971104    US 1992-910760           19920707
       FI 106317              B1     20010115    FI 1992-4349             19920928
       NO 9203839             A      19921119    NO 1992-3839             19921001
       NO 310241              B1     20010611
       US 5714596             A      19980203    US 1993-40564            19930331
       LV 10306               B      19950620    LV 1993-442              19930531
       LV 10344               B      19960220    LV 1993-4381             19930531
       US 5679342             A      19971021    US 1993-97853            19930727
       US 5350671             A      19940927    US 1993-103961           19930809
       LT 3808                B      19960325    LT 1993-1747             19931230
       HR 940493              B1     20001031    HR 1994-940493           19940907
       US 5698390             A      19971216    US 1994-306472           19940915
       US 6074816             A      20000613    US 1994-307273           19940916
       US 5712087             A      19980127    US 1995-440519           19950512
       US 6312889             B1     20011106    US 1995-440549           19950512
       US 5712088             A      19980127    US 1995-440769           19950515
       US 6096541             A      20000801    US 1995-441026           19950515
       US 6171782             B1     20010109    US 1995-442647           19950515
       US 6861212             B1     20050301    US 1995-441355           19950515
       US 5863719             A      19990126    US 1995-472821           19950607
       NO 9505101             A      19951215    NO 1995-5101             19951215
       NO 306511              B1     19991115
       NO 9505102             A      19951215    NO 1995-5102             19951215
       NO 303879              B1     19980914
       US 2003162167          A1     20030828    US 1996-686983           19960725
       JP 09173079            A2     19970708    JP 1996-241451           19960822
       JP 3171793             B2     20010604
       FI 9801380             A      19980615    FI 1998-1380             19980615
       FI 106564              B1     20010228
       GR 3031361             T3     20000131    GR 1999-402455           19990929
       DK 200501169           A5     20050819    DK 2005-1169             20050819
PRAI   US 1987-122714         A      19871118
       IN 1988-CA960          A      19881118
       US 1987-139886         A      19871230
       US 1988-161072         A      19880226
       US 1988-191263         A      19880506
       US 1988-263584         A      19881026
       US 1988-271450         A      19881114
       CN 1988-107988         A      19881118
       JP 1992-361785         A3     19881118
       JP 1992-361787         A3     19881118
       JP 1993-178446         A3     19881118
       JP 1996-241451         A3     19881118
       JP 1998-111631         A3     19881118
       WO 1988-US4125         A      19881118
       YU 1988-2138           A6     19881118
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US 1989-325338    B2    19890317
US 1989-341334    B2    19890420
US 1989-353896    B2    19890421
US 1989-355002    B2    19890518
US 1989-355961    B2    19890518
NO 1989-2931      A     19890717
DK 1989-3537      A     19890718
US 1989-398667    B2    19890825
US 1989-456637    B2    19891221
US 1990-504352    A     19900404
US 1990-505435    B2    19900404
US 1990-566209    B1    19900808
US 1990-611965    B2    19901108
WO 1991-US2225    A     19910329
EP 1991-302910    A3    19910403
US 1992-910760    A3    19920707
US 1993-40564     A3    19930331
US 1993-103961    A1    19930809
US 1994-306472    A3    19940915
US 1994-307273    A3    19940916
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AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope,
     a pH buffer, a detection label, assay instructions, and packaging. Also
     provided are polynucleotide probes for detection of HCV nucleic acids, a
     monoclonal antibody to an HCV epitope for detection of HCV antigens by
     immunoassay, and vaccines comprising immunogenic peptides contg. an HCV
     epitope for treatment of HCV infections. The sequence of HCV cDNA
     suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated
     from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used
     to generate a λ-gt11 cDNA library which was screened for prodn. of
     epitopes which bound to serum from patients with non-A, non-B hepatitis.
     The cDNAs of several clones were sequenced and used to derive a composite
     sequence; the corresponding polypeptides were expressed in Escherichia
     coli as fusion products with superoxide dismutase.

IT **155182-84-6**, DNA (hepatitis C virus clone 5-1-1 cDNA)
     RL: PRP (Properties)
         (nucleotide sequence of)
RN   155182-84-6 CAPLUS
CN   DNA (hepatitis C virus clone 5-1-1 polyprotein fragment-specifying) (9CI)
     (CA INDEX NAME)

SEQ   1 ggcctcctgc ttgaactgct cggcgagcat catacctgac agggaagtcc
         51 tctaccgaga gttcgatgag atggaagagt gctctcagca cttaccgtac
        101 atcgagcaag ggatgatgct cgccgagcag ttcaagcaga aggccctcgg
        151 cctcc

IT   INDEXING IN PROGRESS
IT **155182-84-6**, DNA (hepatitis C virus clone 5-1-1 cDNA)
     RL: PRP (Properties)
         (nucleotide sequence of)
RN   155182-84-6 CAPLUS
CN   DNA (hepatitis C virus clone 5-1-1 polyprotein fragment-specifying) (9CI)
     (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

L4   ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1990:173651 CAPLUS
DN   112:173651

```
TI    Manufacture of recombinant proteins by Escherichia coli using chimeras of
      the kdsB gene
IN    Bolling, Timothy Jon; Mandecki, Wlodzimierz
PA    Abbott Laboratories, USA
SO    Eur. Pat. Appl., 29 pp.
      CODEN: EPXXDW
DT    Patent
LA    English
FAN.CNT 5
      PATENT NO.            KIND  DATE         APPLICATION NO.          DATE
      ---------------       ----  --------     ----------------------   --------
PI    EP 331961            A2    19890913     EP 1989-102928           19890220
      EP 331961            A3    19900704
      EP 331961            B1    19951220
         R:  AT,  BE,  CH, DE,  ES,  FR,  GB, GR,  IT,  LI,  LU, NL,  SE
      US 5124255           A     19920623     US 1988-276263           19881123
      AT 131876            E     19960115     AT 1989-102928           19890220
      ES 2083957           T3    19960501     ES 1989-102928           19890220
      AU 8931206           A1    19890914     AU 1989-31206            19890310
      AU 625554            B2    19920716
      JP 02035089          A2    19900205     JP 1989-59466            19890310
      JP 08013273          B4    19960214
      CA 1335358           A1    19950425     CA 1989-593373           19890310
PRAI  US 1988-167067       A     19880311
      US 1988-276263       A     19881123
AB    Chimeric genes contg. sequences of the Escherichia coli kdsB gene,
      encoding CTP:CMP-3-deoxy-manno-octulosonate cytidylyl transferase (CKS,
      CMP-KDO synthetase, E.C. 2.7.7.38), under the control of a modified lac
      promoter are used to prep. fusion proteins. This system produces the
      fusion protein as up to 50% of total cellular protein. A chimeric gene
      for CKS and HIV p41 (env) protein was constructed using the sequence for
      the antigenic region of amino acids 548-646 and an appropriate linker.
      Transformants carrying the plasmids were grown in the presence of iso-Pr
      thiogalactoside for 3 h. Cell lysates were fractionated by SDS-PAGE and a
      band corresponding to the fusion protein was visible on Coomassie-stained
      gels. Western blotting using a goat anti-CKS antibody detected the
      protein at antibody dilns. of 1:1500.
IT    126466-77-1
      RL: PRP (Properties)
          (nucleotide sequence of and expression in Escherichia coli of chimeric
          gen for)
RN    126466-77-1  CAPLUS
CN    DNA, (human immunodeficiency virus clone pAcHT6 459-851-glycoprotein gp
      160env[Leu459Trp460Ile461Pro462Gly463Asp464]-specifying plus 3'-flank)
      (9CI)  (CA INDEX NAME)

      STRUCTURE DIAGRAM IS NOT AVAILABLE
IT    126466-76-0
      RL: PRP (Properties)
          (nucleotide sequence of and expression in Escherichia coli of chimeric
          gene for)
RN    126466-76-0  CAPLUS
CN    DNA, (human immunodeficiency virus clone pAcHT6 459-851-glycoprotein gp
      160env[Leu459Trp460Ile461Pro462Gly463Asp464]-specifying) (9CI)  (CA INDEX
      NAME)


NTE   doublestranded


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         51 ttctgaactg tacaaataca aagttgttaa aatcgaaccg ctgggtgttg
        101 ctccgactaa agctaaacgt cgtgttgttc agcgtgaaaa acgcgccgtt
        151 ggtatcggtg cactgttcct gggtttcctg ggtgctgctg gttctaccat
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 201 gggtgctgct tctatgaccc tgactgttca ggcccgtcag cttctgtctg
 251 gtatcgttca gcagcagaac aatctgctgc gtgctatcga agctcagcag
 301 catctgctgc aactgaccgt ttggggtatc aaacagcttc aggctcgtat
 351 cctggctgtt gaacgttacc tgaaagacca gcagctgctg ggtatctggg
 401 gttgctctgg taaactgatc tgcactactg ctgttccgtg gaacgcttct
 451 tggtctaaca aatctctgga acagatctgg aacaacatga cttggatgga
 501 atgggaccgt gaaatcaaca actacacaag cttgatccac tctctgatcg
 551 aagaaagcca gaaccagcag gaaaaaaacg aacaggaact tctagaactg
 601 gacaaatggg cttctctgtg gaactggttt aacatcacca actggctgtg
 651 gtacatcaaa ctgttcatca tgatcgttgg tggtctggtt ggtctgcgta
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 951 tatcgttgaa ctgctcggcc gtcgtggttg ggaagctctg aaatactggt
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1051 ctgctgaacg ctactgctat cgctgttgct gaaggcaccg atcgtgttat
1101 cgaagtagtt cagggtgctt accgtgctat ccgtcacatt ccgcgtcgta
1151 tccgtcaggg tctggaacgt atcctgctgt aa
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IT   INDEXING IN PROGRESS
IT 126466-77-1
     RL: PRP (Properties)
         (nucleotide sequence of and expression in Escherichia coli of chimeric
         gen for)
RN   126466-77-1 CAPLUS
CN   DNA, (human immunodeficiency virus clone pAcHT6 459-851-glycoprotein gp
      160env[Leu459Trp460Ile461Pro462Gly463Asp464]-specifying plus 3'-flank)
      (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE
IT 126466-76-0
     RL: PRP (Properties)
         (nucleotide sequence of and expression in Escherichia coli of chimeric
         gene for)
RN   126466-76-0 CAPLUS
CN   DNA, (human immunodeficiency virus clone pAcHT6 459-851-glycoprotein gp
      160env[Leu459Trp460Ile461Pro462Gly463Asp464]-specifying) (9CI) (CA INDEX
      NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

L4   ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1990:152619 CAPLUS
DN   112:152619
TI   Cloning and sequencing of the gltX gene, encoding the glutamyl-tRNA
      synthetase of Rhizobium meliloti A2
AU   Laberge, Serge; Gagnon, Yves; Bordeleau, Lucien M.; Lapointe, Jacques
CS   Fac. Sci. Genie, Univ. Laval, Quebec, QC, G1K 7P4, Can.
SO   Journal of Bacteriology (1989), 171(7), 3926-32
      CODEN: JOBAAY; ISSN: 0021-9193
DT   Journal
LA   English
AB   The gltX gene, coding for glutamyl-tRNA synthetase of R. meliloti A2, was
      cloned by using as probe a synthetic oligonucleotide corresponding to the
      amino acid sequence of a segment of the glutamyl-tRNA synthetase. The
      codons chosen for this 42-mer were those most frequently used in a set of
      R. meliloti genes. DNA sequence anal. revealed an open reading frame of

13

484 codons, encoding a polypeptide of Mr 54,166 contg. the amino acid
sequences of an NH2-terminal and various internal fragments of the enzyme.
Compared with the amino acid sequence of the glutamyl-tRNA synthetase of
Escherichia coli, the N-terminal third of the R. meliloti enzyme was
strongly conserved (52% identity); the second shift was moderately
conserved (38% identity) and included a few highly conserved segments,
whereas no significant similarity was found in the C-terminal third.
These results suggest that the C-terminal part of the protein is probably
not involved in the recognition of substrates, a feature shared with other
aminoacyl-tRNA synthetases.
IT   125854-66-2, Deoxyribonucleic acid (Rhizobium meliloti strain A2
     gene gltX)
     RL: PRP (Properties); BIOL (Biological study)
     (nucleotide sequence of)
RN   125854-66-2 CAPLUS
CN   DNA (Rhizobium meliloti strain A2 gene gltX) (9CI)   (CA INDEX NAME)

SEQ   1 gtcgacagca tcatcacccg ccgtcggcat gaccccgcat ctgccgatca
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       151 ggccttcctc ctgatgatcg gcacgaccct gatcgccaag gcatggcttc
       201 cacgtgccga aggctacgtc catgtgccat ggccttctcc gcactggtcg
       251 aggttctcaa catggtcgcc cgcaacgcgc gcatgagcgg cagaccgcaa
       301 gaacgaaata gaagcacgac acaacgaggc ccgcatcgca atgcgggctt
       351 cgcggtgatc tttgctcgtt gcgggcagcg agacgacgac attgccgctc
       401 gcgctttccg ttgacatgca gggctttcta tggtctcacg cctgccgact
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       701 gcgcatcgag gacacggatg cgacgcgctc gacgccggaa ttcgagaaga
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      1251 cacattctga tctatcagta tctgggtctc gagcccctg tcttcatgca
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      2001 gtcgcctcca tggcgggcag tggaaagtaa ggacaagacc atgaccgaca
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2301 gatccagatc ttttcgcaca aggatacggc accggaagag gcgcgcgcgc
2351 ttctgccgat gatcgatctc ggcgacatca tcggggtcac cggagaggtg
2401 cgccgcacca agcgcggcga actgaccgtc aacgccaaag agatcaccat
2451 gctctgcaag tcgctcctgc cgatgccgga gaagtatcac gggcttgccg
2501 atatcgagac gcgctaccgc aagcgctacc tcgacatcat ggtcaacgag
2551 gaatcgaagc tgcgcttcca gcagcgaagc cgcatcgtgt cgagcctgcg
2601 ccgattcctc gaggacgaag gcttcatgga agtggagacg ccgatgctgc
2651 agccgatcta cggcggcgcg acggccgagc ccttcaagac gcatcacaac
2701 acgctgaagc tcgacatgta tctgcgcatc gccgccgagc tttacctgaa
2751 cgcgattctc gtttccggcc tgacggacaa ggtcttcgag atcaaccgca
2801 acttccgcaa cgaaggcgtc tcgacccggc acaatcctga attcaccatg
2851 atggagtgct actgggccta tgctgactac gaggacgtga tgggtctcgt
2901 ggagcgcatg ttcgagaccc tggcgcttgc ggttcacggc aagacggaat
2951 tcgagttcgg cgacaagcag ctctccttca aggggccgtt ccctcgcgtc
3001 tctatgccgg cggcgtcaag gacgcgaccg gaatcgattt ccttgcccct
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3101 tcgagaagga cgcgacctgg ggcgaagtgc tcgccttcct cttcgaggag
3151 aaggtcgaag cgaccttgat ccagcctgct catgtcatcc acttcccgaa
3201 ggacatctcg cccttcgcca aggaggtgcc gggcgagccg cggctcgtcg
3251 agcgcttcga gacctattgc aacggctggg agatcggcaa cgccttttcc
3301 gagctcaacg acccggtcga gcagcgcgcc cgcatggtcg agcagatgga
3351 acaggcgcat gcccgcggcg agaaggaaaa gacgctggac gaggacttcc
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3551 gcccgtccca cacggggcgg gggctaggcg cccgcggttc ccgaccggtg
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3701 tcccttaatg actcgccttg ctcctcggcc ggcgcaacgg ccgcgacatc
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3901 ccataccggg cacgctccgc ggaccggggg cgaagagcac ctccgcgccg
3951 atcgccgcgc cgcgcacgct tgcgcgatcc tccggacctg ccgcatcgag
4001 cacgaccacc tgataaagat cggcctcctc ctttttggcg agggcgcctg
4051 cgacgcgaag ggcggtcctg atccgatccg gcccgcttgc ccggtccgtc
4101 ttcacatgca tgcggatcc
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STRUCTURE DIAGRAM IS NOT AVAILABLE

L4   ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text

DT   Journal
LA   English

AB   The replicator region of the 195-kilobase-pair (kb) tumor-inducing plasmid
      pTiB6S3 was previously identified by isolation of a 6.8-kb miniplasmid.
      This miniplasmid was joined to ColE1-based vectors and subjected to
      mutagenesis. The resulting mutant plasmids were examd. for their ability
      to replicate autonomously in Agrobacterium tumefaciens. A 4.2-kb region
      was sufficient for displaying replication characteristics similar to those
      of the parental pTiB6S3. Nucleotide sequence anal. of this 4.2-kb region
      revealed the presence of 3 possible reading frames in the same direction
      (repA, repB, and repC). Proteins coded for by these frames were
      identified by in vitro synthesis in a coupled transcription-translation
      system. The replicating ability became attenuated by repA and repB
      mutations but was completely abolished by repC mutations. The size,
      arrangement, and mutational effects of the 3 rep genes were quite similar
      to those of the rep genes that were previously identified in the hairy
      root-inducing plasmid pRiA4b. However, defects caused by rep mutations in
      one plasmid were unable to be complemented by corresponding functions in
      the other plasmid.
IT **124301-77-5**, Deoxyribonucleic acid (plasmid pTiB6S3 clone pTi-II
      gene repC)
      RL: PRP (Properties); BIOL (Biological study)
        (nucleotide sequence of)
RN   124301-77-5 CAPLUS
CN   DNA (plasmid pTiB6S3 clone pTi-II gene repC) (9CI)   (CA INDEX NAME)

NTE   doublestranded

```
SEQ      1 atgcagacgc atttatcaac gacgcccttt gggcggcggc cgatgactct
        51 cggccagatt tcaagtcaga tgtcagcaaa ggccgtggcg cctgacgcta
       101 ccgcaaataa atggcatgtg ttccagaata tccgggaggc gagggaactg
       151 ctcggcgcaa cggatcgctc gcttgcgatc ctcaatgcct tgctgacctt
       201 tcatcccgag acaacgctta ccggcgatgg tgaaatcatt gtatggccat
       251 ccaacgaaca gctagcggca cgcgccaatg gcatgccggc gacgacgttg
       301 cgtcggcatc ttgcagttct cgtggagtgc ggcctggtca tcaggcgcga
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       401 agcaggccta cggcttcgat ctgtctccga tcgtggcgcg cgccaaagaa
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       601 gtgtatcaag cgattatcgg caggctacca cgctccgcac caagacagct
       651 tgtggaggag atctgcatcg gtcttcatgc gctgtacata gaaatccgtg
       701 acgtcttgga atctttcgca aaaacacaga ttcaggacgc caatgagtcc
       751 cattttggtc gtcacataca gaattcaaaa ccagactcta tacctgaatc
       801 tgaatacggc tttggaaata aaccagaagc gggcggcacg gttgaggaat
       851 tcgacaacgt gcgaagcctg ccgaagcggg aattgccatt aggaatcgtg
       901 ctgaatgcct gcccgagcgt gctggaactg gctcagggtg gcgaaatccg
       951 ccattggcgc gattttctgg cgactgtcga acttgctcgg ccgatgctgg
      1001 gtatcagcca gagcgcctgg cgggaagcac tcgatgagct gggcgagcag
      1051 catgcggcaa tcacgcttgc ggcgatctat cagaaggccg accagattgg
      1101 atcggcaggc ggatacttgc gtaacctgac agatcgagcc cgtgatggta
      1151 aattctcaac gtggccgatg atcatggcac tgctgcgggc taaacttgat
      1201 gcgcagaagg tgaaggctga cgatcggctg cccgcgttga acgagacggc
      1251 cgacaatgga tcagggctgc gggcatccga tgcgctgctg agaactctcg
      1301 gcaagtcgag gccgaaatga
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IT   INDEXING IN PROGRESS
IT **124301-77-5**, Deoxyribonucleic acid (plasmid pTiB6S3 clone pTi-II
      gene repC)
      RL: PRP (Properties); BIOL (Biological study)

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            (nucleotide sequence of)
RN    124301-77-5  CAPLUS
CN    DNA (plasmid pTiB6S3 clone pTi-II gene repC) (9CI)   (CA INDEX NAME)
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STRUCTURE DIAGRAM IS NOT AVAILABLE

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L4    ANSWER 5 OF 8  CAPLUS  COPYRIGHT 2006 ACS on STN
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<u>Full Text</u>
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AN    1989:451313  CAPLUS
DN    111:51313
TI    Nucleotide sequence and characterization of toxR:  a gene involved in
      exotoxin A regulation of Pseudomonas aeruginosa [Erratum to document cited
      in CA107(1):1681n]
AU    Wozniak, D. J.; Cram, D. C.; Daniels, C. J.; Galloway, D. R.
CS    Dep. Microbiol., Ohio State Univ., Columbus, OH, 43210, USA
SO    Nucleic Acids Research (1989), 17(8), 3334
      CODEN: NARHAD; ISSN: 0305-1048
DT    Journal
LA    English
AB    An error in the original sequence in Figure 5 has been cor.  The reading
      frame now becomes 260 codons and could encode a protein of 28,825 daltons,
      not 225 codons and 24,626 daltons as reported in the original article.
      The error was reflected in the abstr.
IT 108727-55-5, Deoxyribonucleic acid (Pseudomonas aeruginosa clone
      pFHK10 gene toxR)
      RL: PRP (Properties); BIOL (Biological study)
         (nucleotide sequence of (Erratum))
RN    108727-55-5  CAPLUS
CN    DNA (Pseudomonas aeruginosa clone pFHK10 gene toxR) (9CI)   (CA INDEX NAME)


NTE   doublestranded


SEQ      1 atgactgcga cagacagaac gcccccgcca ttgaaatggc tctgcctcgg
        51 caaccgtgat gcgaacgacg gattcgagct cttcgcccat ggcatctatg
       101 cgaggaacgg cgcgttggtc ggcagcaagc tctccctgcg cgaacggcgc
       151 cagcgcgtcg acctgtcggc cttcctttcc ggcgcaccgc cgctgcttgc
       201 tgaggcggcg gtcaagcacc tgctggcgcg cctcctgtgc gtgcaccggc
       251 acaacaccga cctcgaactg ctcggcaaga acttcattcc cctgcatgcc
       301 agcagcctgg gcaacgccgg ggtctgcgag cggatcctgg cctcggccag
       351 gcaattgcag cagcaccagg tcgaactctg cctgctgctg gccatcgacg
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       451 gacagcggcg tgcgcatcgc gctgcacccg caacgcatcg ataccgacgc
       501 tcgccagtgc ttcgccgagg tcgacgccgg cctctgcgat tacctgggcc
       551 tggacgcgcg cctgcttgcc cccggcccgc tgacgcgtaa cctgcgccag
       601 cgcaagagca tcgagtacct gaaccggctg ctggtggcac aggacatcca
       651 gatgctttgc ctcaacgtcg acaatgagga actgcaccaa caagccaacg
       701 cactcccctt cgccttccgt cacggcaggc actattcgga gcctttccag
       751 gcctggccgt tcagcagtcc ggcctgctga
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IT    INDEXING IN PROGRESS
IT 108727-55-5, Deoxyribonucleic acid (Pseudomonas aeruginosa clone
      pFHK10 gene toxR)
      RL: PRP (Properties); BIOL (Biological study)
         (nucleotide sequence of (Erratum))
RN    108727-55-5  CAPLUS
CN    DNA (Pseudomonas aeruginosa clone pFHK10 gene toxR) (9CI)   (CA INDEX NAME)
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STRUCTURE DIAGRAM IS NOT AVAILABLE

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L4    ANSWER 6 OF 8  CAPLUS  COPYRIGHT 2006 ACS on STN
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Full Text
AN   1988:605812 CAPLUS
DN   109:205812
TI   Characterization of a gene that regulates toxin A synthesis in Pseudomonas
      aeruginosa
AU   Hindahl, Michael S.; Frank, Dara W.; Hamood, Abdul; Iglewski, Barbara H.
CS   Med. Cent., Univ. Rochester, Rochester, NY, 14642, USA
SO   Nucleic Acids Research (1988), 16(12), 5699
      CODEN: NARHAD; ISSN: 0305-1048
DT   Journal
LA   English
AB   The pos. regulatory gene regA of P. aeruginosa, which increases exotoxin A
      prodn., was subcloned from plasmid pFHK10 where it resided on a 3-kilobase
      XhoI fragment from PA103 chromosomal DNA. Comparison of the regA gene
      sequence and previously published sequence data for the same gene (denoted
      toxR) revealed several notable nucleotide base differences and different
      start and stop sites for the coding region, resulting in a protein with a
      predicted mol. wt. of 27,755.
IT   **117385-37-2**, Deoxyribonucleic acid (Pseudomonas aeruginosa clone
      pFHK10 gene regA)
      RL: PRP (Properties); BIOL (Biological study)
         (nucleotide sequence of)
RN   117385-37-2 CAPLUS
CN   DNA (Pseudomonas aeruginosa clone pFHK10 gene regA) (9CI)   (CA INDEX NAME)

NTE   doublestranded

SEQ   1 atgaaatggc tctgcctcgg caaccgtgat gcgaacgacg gattcgagct
         51 cttcgcccat ggcatctatg cgaggaacgg cgcgttggtc ggcagcaagc
        101 tctccctgcg cgaacggcgc cagcgcgtcg acctgtcggc cttcctttcc
        151 ggcgcaccgc cgctgcttgc tgaggcggcg gtcaagcacc tgctggcgcg
        201 cctcctgtgc gtgcaccggc acaacaccga cctcgaactg ctcggcaaga
        251 acttcattcc cctgcatgcc agcagcctgg gcaacgccgg ggtctgcgag
        301 cggatcctgg cctcggccag gcaattgcag cagcaccagg tcgaactctg
        351 cctgctgctg gccatcgacg agcaggaacc cgcctcggcg gagtacctgg
        401 cgtccctcgc ccggctacgc gacagcggcg tgcgcatcgc gctgcacccg
        451 caacgcatcg ataccgacgc tcgccagtgc ttcgcccgag gtcgacgccg
        501 gcctctgcga ttacctgggc ctggacgcgc gcctgcttgc ccccggcccg
        551 ctgacgcgta acctgcgcca gcgcaagagc atcgagtacc tgaaccggct
        601 gctggtggca caggacatcc agatgctttg cctcaacgtc gacaatgagg
        651 aactgcacca acaagccaac gcactcccct tcgccttccg tcacggcagg
        701 cactattcgg agcctttcca ggcctggccg ttcagcagtc cggcctgctg
        751 a

IT   INDEXING IN PROGRESS
IT   **117385-37-2**, Deoxyribonucleic acid (Pseudomonas aeruginosa clone
      pFHK10 gene regA)
      RL: PRP (Properties); BIOL (Biological study)
         (nucleotide sequence of)
RN   117385-37-2 CAPLUS
CN   DNA (Pseudomonas aeruginosa clone pFHK10 gene regA) (9CI)   (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

L4   ANSWER 7 OF 8 CAPLUS   COPYRIGHT 2006 ACS on STN
Full Text
AN   1987:401681 CAPLUS
DN   107:1681
TI   Nucleotide sequence and characterization of toxR: a gene involved in
      exotoxin A regulation of Pseudomonas aeruginosa

AU   Wozniak, D. J.; Cram, D. C.; Daniels, C. J.; Galloway, D. R.
CS   Dep. Microbiol., Ohio State Univ., Columbus, OH, 43210, USA
AB   The P. aeruginosa gene toxR, regulates the expression of the exotoxin A
      (ETA) structural gene toxA. The toxR gene was transferred to a
      high-copy-no. plasmid (pGW28). Nucleotide sequence anal. of pGW28
      revealed a 675-bp open reading frame (225 codons) which could encode for a
      protein of 24,626 daltons. Using S1 nuclease mapping, the toxR RNA
      transcript was shown to originate 20 bp upstream of the presumptive
      translation initiation codon. Expts. using a toxA-specific probe revealed
      that the toxR gene product regulates the expression of ETA at the
      transcriptional level.
IT 108727-55-5
      RL: PRP (Properties); BIOL (Biological study)
         (nucleotide sequence of)
RN   108727-55-5 CAPLUS
CN   DNA (Pseudomonas aeruginosa clone pFHK10 gene toxR) (9CI)   (CA INDEX NAME)

NTE   doublestranded

SEQ   1 atgactgcga cagacagaac gcccccgcca ttgaaatggc tctgcctcgg
        51 caaccgtgat gcgaacgacg gattcgagct cttcgcccat ggcatctatg
       101 cgaggaacgg cgcgttggtc ggcagcaagc tctccctgcg cgaacggcgc
       151 cagcgcgtcg acctgtcggc cttcctttcc ggcgcaccgc cgctgcttgc
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       651 gatgctttgc ctcaacgtcg acaatgagga actgcaccaa caagccaacg
       701 cactcccctt cgccttccgt cacggcaggc actattcgga gcctttccag
       751 gcctggccgt tcagcagtcc ggcctgctga

IT   INDEXING IN PROGRESS
IT 108727-55-5
      RL: PRP (Properties); BIOL (Biological study)
         (nucleotide sequence of)
RN   108727-55-5 CAPLUS
CN   DNA (Pseudomonas aeruginosa clone pFHK10 gene toxR) (9CI)   (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

L4   ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1987:1203 CAPLUS
DN   106:1203
TI   Transcription and processing signals in the 3-phosphoglycerate kinase
      (PGK) gene from Aspergillus nidulans
AU   Clements, J. M.; Roberts, C. F.
CS   Dep. Genet., Univ. Leicester, Leicester, LE1 7RH, UK

LA   English
AB   The 3-phosphoglycerate kinase [9001-83-6] gene from A. nidulans contains
     2 57-base-pair (bp) introns and codes for a 421-amino acid protein with
     considerable homol. to the Saccharomyces cerevisiae (68%) and mammalian
     (64%) proteins. Almost total conservation is found in Aspergillus of
     residues thought to be important to the structure and function of the
     yeast enzyme, and the introns fall between coding sequences for postulated
     structures in the N-domain. The strong codon preference found is more
     similar to that in other filamentous fungi than in yeast. The
     transcription start point (+1) was 32 bp upstream from the start codon,
     and the promoter region contains potential homologies for CAAT (-80 bp)
     and TATA (-30 bp) sequences and certain other features common to other
     highly expressed genes in ascomycetes. There are 3 major termini 23, 83,
     and 115 bp beyond the stop codon, and 2 of these are preceded by the
     polyadenylation consensus sequence and contain potential secondary
     structure.
IT   105634-23-9
     RL: PRP (Properties); BIOL (Biological study)
        (nucleotide sequence of)
RN   105634-23-9 CAPLUS
CN   DNA (Aspergillus nidulans gene PGK) (9CI)   (CA INDEX NAME)

NTE doublestranded

SEQ   1 atgtctctca ccagcaagct ttccatcaca gatgtggatc tcaaggacaa
       51 gcgtgtcctg atccgagtac gttgagccta taaacgcccc ctaatgaccc
      101 ctctaacgct gaattgtaac taggttgact tcaatgtgcc cctcgacaag
      151 aacgacaaca ccacaatcac caaccctcag cgtatcgtcg gtgctctgcc
      201 taccatcaag tatgccatcg ataacggcgc caaggccgtc atcctcatgt
      251 cccaccttgg ccgtcctgat ggcaagaaga accccaagta cagcttgaag
      301 cccgttgtgc ccaagctcaa ggaactgctc ggccgcgacg tcatctttac
      351 tgaggactgc gttggcccag aggtcgagga gactgttaac aaggcctccg
      401 gtggccaggt catccttctt gagaacctgc gcttccacgc cgaggaggaa
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      551 gtaagtagcc ttcaaaccac tctcttgcaa ctgagtccgt tattgactgc
      601 tatatagacg atgcctttgg taccgcccac cgtgctcaca gctccatggt
      651 cggtgtcgac cttccccaga aggcctccgg attcctcgtc aagaaggagc
      701 tcgaatactt cgcgaaggcc ctcgaggagc cccagcggcc cttcctcgcc
      751 atccttggtg gctctaaggt ttccgacaag atccagctaa ttgacaacct
      801 ccttcccaag gtcaacagcc tcatcattac cggaggcatg gctttcacct
      851 tcaagaagac tctcgagaac gtcaagattg gaagcagtct cttcgatgag
      901 gccggcagca agatcgtcgg taacatcatc gaaaaggcca agaagcacaa
      951 cgtcaaggtt gttcttcccg tcgactacgt cactgccgat aagtttgccg
     1001 ccgatgcgaa gactggctac gccactgatg agcagggtat ccctgatggt
     1051 tacatgggct tagacgttgg cgagaagagt gtcgagtcct acaagcagac
     1101 cattgccgag tccaagacta ttctgtggaa cggacccccc ggtgtctttg
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     1351 gttgctgctc tctctgagaa aagtaagtaa

IT   INDEXING IN PROGRESS
IT   105634-23-9
     RL: PRP (Properties); BIOL (Biological study)
        (nucleotide sequence of)
RN   105634-23-9 CAPLUS
CN   DNA (Aspergillus nidulans gene PGK) (9CI)   (CA INDEX NAME)

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          9 L7
    13074835 PY<1990
L8   1 L7 AND PY<1990

=> d bib ab hitseq

L8   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653 CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
      (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
      CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8
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| | AU 624105 | B2 | 19920604 | | |
| | ZA 8808669 | A | 19890830 | ZA 1988-8669 | 19881118 |
| | BR 8807310 | A | 19900313 | BR 1988-7310 | 19881118 |
| | DD 287104 | A5 | 19910214 | DD 1988-321971 | 19881118 |
| | IN 169067 | A | 19910831 | IN 1988-CA960 | 19881118 |

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| CN 1074422 | B | 20011107 | | |
| JP 05081600 | B4 | 19931115 | JP 1989-500565 | 19881118 |
| JP 09184844 | A2 | 19970715 | JP 1996-239921 | 19881118 |
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| IN 171239 | A | 19920822 | IN 1990-CA805 | 19900917 |
| IN 171240 | A | 19920822 | IN 1990-CA808 | 19900917 |
| WO 9115771 | A1 | 19911017 | WO 1991-US2225 | 19910329 |

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| BR 9106309 | A | 19930420 | BR 1991-6309 | 19910329 |
| HU 62706 | A2 | 19930528 | HU 1992-3146 | 19910329 |
| HU 217025 | B | 19991129 | | |
| JP 05508219 | T2 | 19931118 | JP 1991-507636 | 19910329 |
| JP 2733138 | B2 | 19980330 | | |
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| PL 172133 | B1 | 19970829 | PL 1991-296329 | 19910329 |
| RU 2130969 | C1 | 19990527 | RU 1991-5053084 | 19910329 |
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| EP 693687 | A1 | 19960124 | EP 1995-114016 | 19910403 |
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| AT 182684 | E | 19990815 | AT 1995-114016 | 19910403 |
| ES 2134388 | T3 | 19991001 | ES 1995-114016 | 19910403 |
| US 5683864 | A | 19971104 | US 1992-910760 | 19920707 |
| FI 106317 | B1 | 20010115 | FI 1992-4349 | 19920928 |
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| US 5714596 | A | 19980203 | US 1993-40564 | 19930331 |
| LV 10306 | B | 19950620 | LV 1993-442 | 19930531 |
| LV 10344 | B | 19960220 | LV 1993-4381 | 19930531 |
| US 5679342 | A | 19971021 | US 1993-97853 | 19930727 |
| US 5350671 | A | 19940927 | US 1993-103961 | 19930809 |
| LT 3808 | B | 19960325 | LT 1993-1747 | 19931230 |
| HR 940493 | B1 | 20001031 | HR 1994-940493 | 19940907 |
| US 5698390 | A | 19971216 | US 1994-306472 | 19940915 |
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      CN 1988-107988  A     19881118
      JP 1992-361785  A3    19881118
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      WO 1988-US4125  A     19881118
      YU 1988-2138    A6    19881118
      US 1989-325338  B2    19890317
      US 1989-341334  B2    19890420
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      US 1990-566209  B1    19900808
      US 1990-611965  B2    19901108
      WO 1991-US2225  A     19910329
      EP 1991-302910  A3    19910403
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      US 1993-40564   A3    19930331
      US 1993-103961  A1    19930809
      US 1994-306472  A3    19940915
      US 1994-307273  A3    19940916
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AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope, a pH buffer, a detection label, assay instructions, and packaging. Also provided are polynucleotide probes for detection of HCV nucleic acids, a monoclonal antibody to an HCV epitope for detection of HCV antigens by immunoassay, and vaccines comprising immunogenic peptides contg. an HCV epitope for treatment of HCV infections. The sequence of HCV cDNA suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used to generate a λ-gt11 cDNA library which was screened for prodn. of epitopes which bound to serum from patients with non-A, non-B hepatitis.

The cDNAs of several clones were sequenced and used to derive a composite
sequence; the corresponding polypeptides were expressed in Escherichia
coli as fusion products with superoxide dismutase.
IT 155182-84-6, DNA (hepatitis C virus clone 5-1-1 cDNA)
    155182-87-9, DNA (hepatitis C virus clone 1-2 cDNA)
    RL: PRP (Properties)
        (nucleotide sequence of)
RN 155182-84-6 CAPLUS
CN DNA (hepatitis C virus clone 5-1-1 polyprotein fragment-specifying) (9CI)
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SEQ   1 ggcctcctgc ttgaactgct cggcgagcat catacctgac agggaagtcc
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        151 cctcc

RN 155182-87-9 CAPLUS
CN DNA (hepatitis C virus clone 1-2 164-nucleotide fragment) (9CI) (CA INDEX
    NAME)

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COST IN U.S. DOLLARS   SINCE FILE   TOTAL
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
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CA SUBSCRIBER PRICE   -0.75   -12.75

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STRUCTURE FILE UPDATES: 4 JAN 2006 HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES: 4 JAN 2006 HIGHEST RN 871209-00-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

    Please note that search-term pricing does apply when
    conducting SmartSELECT searches.

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25

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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
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Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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       21530848 SQL<375
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE 'CAPLUS' ENTERED AT 11:54:43 ON 06 JAN 2006
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FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

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          254 L11
      13074835 PY<1990
L12           1 L11 AND PY<1990

=> d bib ab hitseq

L12 ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653  CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
     (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
     CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8
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	AU 624105	B2	19920604		
	ZA 8808669	A	19890830	ZA 1988-8669	19881118
	BR 8807310	A	19900313	BR 1988-7310	19881118
	DD 287104	A5	19910214	DD 1988-321971	19881118
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	NO 304990	B1	19990315		
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        US 5712087              A       19980127    US 1995-440519        19950512
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US 1993-40564       A3    19930331
US 1993-103961      A1    19930809
US 1994-306472      A3    19940915
US 1994-307273      A3    19940916
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AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope,
      a pH buffer, a detection label, assay instructions, and packaging. Also
      provided are polynucleotide probes for detection of HCV nucleic acids, a
      monoclonal antibody to an HCV epitope for detection of HCV antigens by
      immunoassay, and vaccines comprising immunogenic peptides contg. an HCV
      epitope for treatment of HCV infections. The sequence of HCV cDNA
      suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated
      from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used
      to generate a λ-gt11 cDNA library which was screened for prodn. of
      epitopes which bound to serum from patients with non-A, non-B hepatitis.
      The cDNAs of several clones were sequenced and used to derive a composite
      sequence; the corresponding polypeptides were expressed in Escherichia
      coli as fusion products with superoxide dismutase.
IT   **155182-84-6**, DNA (hepatitis C virus clone 5-1-1 cDNA)
      155182-87-9, DNA (hepatitis C virus clone 1-2 cDNA)
      RL: PRP (Properties)
         (nucleotide sequence of)
RN   155182-84-6   CAPLUS
CN   DNA (hepatitis C virus clone 5-1-1 polyprotein fragment-specifying) (9CI)
      (CA INDEX NAME)

SEQ   1 ggcctcctgc ttgaactgct cggcgagcat catacctgac agggaagtcc
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       151 cctcc

RN   155182-87-9   CAPLUS
CN   DNA (hepatitis C virus clone 1-2 164-nucleotide fragment) (9CI)   (CA INDEX
      NAME)

SEQ   1 ggtcatagtg ggcagggtcg tcttgtccgg gaagccggca atcatacctg
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FULL ESTIMATED COST                                       10.16        233.00


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)             SINCE FILE      TOTAL
                                                          ENTRY        SESSION
CA SUBSCRIBER PRICE                                       -0.75        -13.50

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DICTIONARY FILE UPDATES:   4 JAN 2006   HIGHEST RN 871209-00-6

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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   conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
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Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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FILE 'CAPLUS' ENTERED AT 11:56:42 ON 06 JAN 2006
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FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

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         109 L15
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L16   1 L15 AND PY<1990

=> d bib ab hitseq

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653 CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
     (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
     CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8

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HU 62706           A2    19930528    HU 1992-3146          19910329
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ES 2134388         T3    19991001    ES 1995-114016        19910403
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FI 106317          B1    20010115    FI 1992-4349          19920928
NO 9203839         A     19921119    NO 1992-3839          19921001
NO 310241          B1    20010611
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LV 10306           B     19950620    LV 1993-442           19930531
LV 10344           B     19960220    LV 1993-4381          19930531
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US 5350671         A     19940927    US 1993-103961        19930809
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US 6074816         A     20000613    US 1994-307273        19940916
US 5712087         A     19980127    US 1995-440519        19950512
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	US 6171782	B1	20010109	US 1995-442647	19950515
	US 6861212	B1	20050301	US 1995-441355	19950515
	US 5863719	A	19990126	US 1995-472821	19950607
	NO 9505101	A	19951215	NO 1995-5101	19951215
	NO 306511	B1	19991115		
	NO 9505102	A	19951215	NO 1995-5102	19951215
	NO 303879	B1	19980914		
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	JP 09173079	A2	19970708	JP 1996-241451	19960822
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PRAI	US 1987-122714	A	19871118		
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	US 1993-103961	A1	19930809		
	US 1994-306472	A3	19940915		
	US 1994-307273	A3	19940916		

AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope,
     a pH buffer, a detection label, assay instructions, and packaging. Also
     provided are polynucleotide probes for detection of HCV nucleic acids, a
     monoclonal antibody to an HCV epitope for detection of HCV antigens by
     immunoassay, and vaccines comprising immunogenic peptides contg. an HCV
     epitope for treatment of HCV infections. The sequence of HCV cDNA
     suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated
     from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used
     to generate a λ-gt11 cDNA library which was screened for prodn. of
     epitopes which bound to serum from patients with non-A, non-B hepatitis.
     The cDNAs of several clones were sequenced and used to derive a composite
     sequence; the corresponding polypeptides were expressed in Escherichia

coli as fusion products with superoxide dismutase.
IT **155182-84-6**, DNA (hepatitis C virus clone 5-1-1 cDNA)
    155182-87-9, DNA (hepatitis C virus clone 1-2 cDNA)
    RL: PRP (Properties)
        (nucleotide sequence of)
RN   155182-84-6 CAPLUS
CN   DNA (hepatitis C virus clone 5-1-1 polyprotein fragment-specifying) (9CI)
     (CA INDEX NAME)

SEQ   1 ggcctcctgc ttgaactgct cggcgagcat catacctgac agggaagtcc
       51 tctaccgaga gttcgatgag atggaagagt gctctcagca cttaccgtac
      101 atcgagcaag ggatgatgct cgccgagcag ttcaagcaga aggccctcgg
      151 cctcc

RN   155182-87-9 CAPLUS
CN   DNA (hepatitis C virus clone 1-2 164-nucleotide fragment) (9CI)   (CA INDEX
     NAME)

SEQ   1 ggtcatagtg ggcagggtcg tcttgtccgg gaagccggca atcatacctg
       51 acagggaagt cctctatcga gagttcgatg agatggaaga gtgctctcag
      101 cacttaccgt acatcgagca agggatgatg ctcgccgagc agttcaagca
      151 gaaggccctc ggcc

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                           ENTRY   SESSION

FULL ESTIMATED COST   10.16   284.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                           ENTRY   SESSION

CA SUBSCRIBER PRICE   -0.75   -14.25

FILE 'REGISTRY' ENTERED AT 11:57:08 ON 06 JAN 2006
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DICTIONARY FILE UPDATES: 4 JAN 2006   HIGHEST RN 871209-00-6

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****
*   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *

```
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s gaacttcatcag/sqen
              0 GAACTTCATCAG/SQEN
         191890 SQL=12
L17           0 GAACTTCATCAG/SQEN
                 (GAACTTCATCAG/SQEN AND SQL=12)

=> s gaacttcatcag/sqsn
L18        5419 GAACTTCATCAG/SQSN

=> s l18 and SQL<375
       21530848 SQL<375
L19         278 L18 AND SQL<375

=> file caplus; s l19 and PY<1990
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	41.14	325.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-14.25

```
FILE 'CAPLUS' ENTERED AT 11:58:34 ON 06 JAN 2006
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FILE COVERS 1907 - 6 Jan 2006  VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006  (20060104/ED)
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They are available for your review at:

http://www.cas.org/infopolicy.html

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        112 L19
   13074835 PY<1990
L20        0 L19 AND PY<1990

=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY       SESSION
FULL ESTIMATED COST                               2.41       328.29


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY       SESSION
CA SUBSCRIBER PRICE                               0.00       -14.25

FILE 'REGISTRY' ENTERED AT 11:59:13 ON 06 JAN 2006
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DICTIONARY FILE UPDATES:   4 JAN 2006   HIGHEST RN 871209-00-6

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*****************************************************************
*                                                               *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                               *
*****************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s aaccccgccatt/sqen
            0 AACCCCGCCATT/SQEN
       191890 SQL=12
L21        0 AACCCCGCCATT/SQEN
               (AACCCCGCCATT/SQEN AND SQL=12)

=> s aaccccgccatt/sqsn
L22     1203 AACCCCGCCATT/SQSN

=> s l22 and SQL<375
   21530848 SQL<375
L23       45 L22 AND SQL<375
```

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=> file caplus; s 123 and PY<1990
COST IN U.S. DOLLARS                            SINCE FILE       TOTAL
                                                     ENTRY     SESSION
FULL ESTIMATED COST                                  41.14      369.43


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE       TOTAL
                                                     ENTRY     SESSION
CA SUBSCRIBER PRICE                                   0.00      -14.25
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FILE 'CAPLUS' ENTERED AT 12:00:18 ON 06 JAN 2006
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FILE LAST UPDATED: 4 Jan 2006   (20060104/ED)

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http://www.cas.org/infopolicy.html

          26 L23
      13074835 PY<1990
L24   0 L23 AND PY<1990

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                     ENTRY   SESSION
FULL ESTIMATED COST   3.33   372.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                     ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -14.25
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FILE 'REGISTRY' ENTERED AT 12:01:52 ON 06 JAN 2006
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STRUCTURE FILE UPDATES:    4 JAN 2006   HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES:   4 JAN 2006   HIGHEST RN 871209-00-6

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conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> s gtccgggaagcc/sqen
            0 GTCCGGGAAGCC/SQEN
       191890 SQL=12
L25         0 GTCCGGGAAGCC/SQEN
              (GTCCGGGAAGCC/SQEN AND SQL=12)

=> s gtccgggaagcc/sqsn
L26      3071 GTCCGGGAAGCC/SQSN

=> s 126 and SQL<375
     21530848 SQL<375
L27       249 L26 AND SQL<375

=> file caplus; s 127 and PY<1990
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	41.14	413.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-14.25

FILE 'CAPLUS' ENTERED AT 12:03:04 ON 06 JAN 2006
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FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 2

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           91 L27
      13074835 PY<1990
L28           1 L27 AND PY<1990
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=> d bib ab hitseq

L28 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653 CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
      (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
      CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8

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PI      IN 171237            A      19920822   IN 1990-CA801           19900917
        AU 8927967           A1     19890614   AU 1989-27967           19881118
        AU 624105            B2     19920604
        ZA 8808669           A      19890830   ZA 1988-8669            19881118
        BR 8807310           A      19900313   BR 1988-7310            19881118
        DD 287104            A5     19910214   DD 1988-321971          19881118
        IN 169067            A      19910831   IN 1988-CA960           19881118
        DD 298524            A5     19920227   DD 1988-344401          19881118
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        DD 298527            A5     19920227   DD 1988-344404          19881118
        CN 1073719           A      19930630   CN 1992-110257          19881118
        CN 1074422           B      20011107
        JP 05081600          B4     19931115   JP 1989-500565          19881118
        JP 09184844          A2     19970715   JP 1996-239921          19881118
        JP 10108674          A2     19980428   JP 1997-99651           19881118
        JP 10290696          A2     19981104   JP 1998-111631          19881118
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        JP 2000023683        A2     20000125   JP 1999-157193          19881118
        RU 2162894           C2     20010210   RU 1988-4742221         19881118
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        DK 8903537           A      19890718   DK 1989-3537            19890718
        DK 175975            B1     20051010
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        IN 171239            A      19920822   IN 1990-CA805           19900917
        IN 171240            A      19920822   IN 1990-CA808           19900917
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     AU 639560           B2      19930729
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     BR 9106309          A       19930420    BR 1991-6309          19910329
     HU 62706            A2      19930528    HU 1992-3146          19910329
     HU 217025           B       19991129
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     JP 2733138          B2      19980330
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     RU 2130969          C1      19990527    RU 1991-5053084       19910329
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     EP 450931           B1      19960612
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        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
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     FI 106317           B1      20010115    FI 1992-4349          19920928
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     LV 10306            B       19950620    LV 1993-442           19930531
     LV 10344            B       19960220    LV 1993-4381          19930531
     US 5679342          A       19971021    US 1993-97853         19930727
     US 5350671          A       19940927    US 1993-103961        19930809
     LT 3808             B       19960325    LT 1993-1747          19931230
     HR 940493           B1      20001031    HR 1994-940493        19940907
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     US 6074816          A       20000613    US 1994-307273        19940916
     US 5712087          A       19980127    US 1995-440519        19950512
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     IN 1988-CA960       A       19881118
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      WO 1988-US4125    A     19881118
      YU 1988-2138      A6    19881118
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      US 1989-355002    B2    19890518
      US 1989-355961    B2    19890518
      NO 1989-2931      A     19890717
      DK 1989-3537      A     19890718
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      US 1990-504352    A     19900404
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      US 1990-566209    B1    19900808
      US 1990-611965    B2    19901108
      WO 1991-US2225    A     19910329
      EP 1991-302910    A3    19910403
      US 1992-910760    A3    19920707
      US 1993-40564     A3    19930331
      US 1993-103961    A1    19930809
      US 1994-306472    A3    19940915
      US 1994-307273    A3    19940916
```

AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope,
       a pH buffer, a detection label, assay instructions, and packaging. Also
       provided are polynucleotide probes for detection of HCV nucleic acids, a
       monoclonal antibody to an HCV epitope for detection of HCV antigens by
       immunoassay, and vaccines comprising immunogenic peptides contg. an HCV
       epitope for treatment of HCV infections. The sequence of HCV cDNA
       suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated
       from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used
       to generate a λ-gt11 cDNA library which was screened for prodn. of
       epitopes which bound to serum from patients with non-A, non-B hepatitis.
       The cDNAs of several clones were sequenced and used to derive a composite
       sequence; the corresponding polypeptides were expressed in Escherichia
       coli as fusion products with superoxide dismutase.

IT   **155182-87-9**, DNA (hepatitis C virus clone 1-2 cDNA)
       RL: PRP (Properties)
           (nucleotide sequence of)
RN   155182-87-9 CAPLUS
CN   DNA (hepatitis C virus clone 1-2 164-nucleotide fragment) (9CI)   (CA INDEX
       NAME)

SEQ   1 ggtcatagtg ggcagggtcg tcttgtccgg gaagccggca atcatacctg
        51 acagggaagt cctctatcga gagttcgatg agatggaaga gtgctctcag
       101 cacttaccgt acatcgagca agggatgatg ctcgccgagc agttcaagca
       151 gaaggccctc ggcc

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                        ENTRY   SESSION
FULL ESTIMATED COST   10.16   424.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
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CA SUBSCRIBER PRICE                         -0.75      -15.00


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STRUCTURE FILE UPDATES:    4 JAN 2006  HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES:   4 JAN 2006  HIGHEST RN 871209-00-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

  *********************************************************************
  *                                                                   *
  * The CA roles and document type information have been removed from *
  * the IDE default display format and the ED field has been added,   *
  * effective March 20, 2005.  A new display format, IDERL, is now    *
  * available and contains the CA role and document type information. *
  *                                                                   *
  *********************************************************************


Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s ggaagagtgctc/sqsn
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=> s l29 and SQL<375
      21530848 SQL<375
L30          185 L29 AND SQL<375

=> file caplus; s l30 and PY<1990
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                                              ENTRY        SESSION
FULL ESTIMATED COST                           34.09        458.15


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE      TOTAL
                                              ENTRY        SESSION
CA SUBSCRIBER PRICE                            0.00        -15.00

FILE 'CAPLUS' ENTERED AT 12:04:21 ON 06 JAN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html


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         73 L30
     13074835 PY<1990
L31          1 L30 AND PY<1990
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=> d bib ab hitseq

L31 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653 CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
     (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
     CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 171237	A	19920822	IN 1990-CA801	19900917
	AU 8927967	A1	19890614	AU 1989-27967	19881118
	AU 624105	B2	19920604		
	ZA 8808669	A	19890830	ZA 1988-8669	19881118
	BR 8807310	A	19900313	BR 1988-7310	19881118
	DD 287104	A5	19910214	DD 1988-321971	19881118
	IN 169067	A	19910831	IN 1988-CA960	19881118
	DD 298524	A5	19920227	DD 1988-344401	19881118
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	CN 1073719	A	19930630	CN 1992-110257	19881118
	CN 1074422	B	20011107		
	JP 05081600	B4	19931115	JP 1989-500565	19881118
	JP 09184844	A2	19970715	JP 1996-239921	19881118
	JP 10108674	A2	19980428	JP 1997-99651	19881118
	JP 10290696	A2	19981104	JP 1998-111631	19881118
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	JP 2000023683	A2	20000125	JP 1999-157193	19881118
	RU 2162894	C2	20010210	RU 1988-4742221	19881118
	FI 8903447	A	19890717	FI 1989-3447	19890717
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NO 8902931	A	19890913	NO 1989-2931		19890717
NO 304990	B1	19990315			
DK 8903537	A	19890718	DK 1989-3537		19890718
DK 175975	B1	20051010			
KR 138776	B1	19980515	KR 1989-701343		19890718
IN 171238	A	19920822	IN 1990-CA802		19900917
IN 171239	A	19920822	IN 1990-CA805		19900917
IN 171240	A	19920822	IN 1990-CA808		19900917
WO 9115771	A1	19911017	WO 1991-US2225		19910329

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    PL, RO, SD, SU
RW: BF, BJ, CF, CG, CM, GA, ML, MR, SN, TD, TG

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AU 639560	B2	19930729			
GB 2257784	A1	19930120	GB 1992-20480		19910329
BR 9106309	A	19930420	BR 1991-6309		19910329
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HU 217025	B	19991129			
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JP 2733138	B2	19980330			
RO 109916	B1	19950728	RO 1975-92012		19910329
PL 172133	B1	19970829	PL 1991-296329		19910329
RU 2130969	C1	19990527	RU 1991-5053084		19910329
EP 450931	A1	19911009	EP 1991-302910		19910403
EP 450931	B1	19960612			

    R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

EP 693687	A1	19960124	EP 1995-114016		19910403
EP 693687	B1	19990728			

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LV 10306	B	19950620	LV 1993-442		19930531
LV 10344	B	19960220	LV 1993-4381		19930531
US 5679342	A	19971021	US 1993-97853		19930727
US 5350671	A	19940927	US 1993-103961		19930809
LT 3808	B	19960325	LT 1993-1747		19931230
HR 940493	B1	20001031	HR 1994-940493		19940907
US 5698390	A	19971216	US 1994-306472		19940915
US 6074816	A	20000613	US 1994-307273		19940916
US 5712087	A	19980127	US 1995-440519		19950512
US 6312889	B1	20011106	US 1995-440549		19950512
US 5712088	A	19980127	US 1995-440769		19950515
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NO 9505102	A	19951215	NO 1995-5102		19951215
NO 303879	B1	19980914			
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JP 09173079	A2	19970708	JP 1996-241451		19960822
JP 3171793	B2	20010604			
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        GR 3031361          T3    20000131   GR 1999-402455          19990929
        DK 200501169        A5    20050819   DK 2005-1169            20050819
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     IN 1988-CA960          A     19881118
     US 1987-139886         A     19871230
     US 1988-161072         A     19880226
     US 1988-191263         A     19880506
     US 1988-263584         A     19881026
     US 1988-271450         A     19881114
     CN 1988-107988         A     19881118
     JP 1992-361785         A3    19881118
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     JP 1993-178446         A3    19881118
     JP 1996-241451         A3    19881118
     JP 1998-111631         A3    19881118
     WO 1988-US4125         A     19881118
     YU 1988-2138           A6    19881118
     US 1989-325338         B2    19890317
     US 1989-341334         B2    19890420
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     DK 1989-3537           A     19890718
     US 1989-398667         B2    19890825
     US 1989-456637         B2    19891221
     US 1990-504352         A     19900404
     US 1990-505435         B2    19900404
     US 1990-566209         B1    19900808
     US 1990-611965         B2    19901108
     WO 1991-US2225         A     19910329
     EP 1991-302910         A3    19910403
     US 1992-910760         A3    19920707
     US 1993-40564          A3    19930331
     US 1993-103961         A1    19930809
     US 1994-306472         A3    19940915
     US 1994-307273         A3    19940916
```

AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope,
     a pH buffer, a detection label, assay instructions, and packaging. Also
     provided are polynucleotide probes for detection of HCV nucleic acids, a
     monoclonal antibody to an HCV epitope for detection of HCV antigens by
     immunoassay, and vaccines comprising immunogenic peptides contg. an HCV
     epitope for treatment of HCV infections. The sequence of HCV cDNA
     suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated
     from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used
     to generate a λ-gt11 cDNA library which was screened for prodn. of
     epitopes which bound to serum from patients with non-A, non-B hepatitis.
     The cDNAs of several clones were sequenced and used to derive a composite
     sequence; the corresponding polypeptides were expressed in Escherichia
     coli as fusion products with superoxide dismutase.
IT 155182-84-6, DNA (hepatitis C virus clone 5-1-1 cDNA)
     155182-87-9, DNA (hepatitis C virus clone 1-2 cDNA)
     RL: PRP (Properties)
         (nucleotide sequence of)
RN   155182-84-6 CAPLUS
CN   DNA (hepatitis C virus clone 5-1-1 polyprotein fragment-specifying) (9CI)
     (CA INDEX NAME)

SEQ   1 ggcctcctgc ttgaactgct cggcgagcat catacctgac agggaagtcc
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        151 cctcc
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RN    155182-87-9  CAPLUS
CN    DNA (hepatitis C virus clone 1-2 164-nucleotide fragment) (9CI)   (CA INDEX
      NAME)
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        151 gaaggccctc ggcc
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=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                    ENTRY    SESSION
FULL ESTIMATED COST                                 10.16     468.31


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                    ENTRY    SESSION
CA SUBSCRIBER PRICE                                 -0.75     -15.75
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FILE 'REGISTRY' ENTERED AT 12:04:44 ON 06 JAN 2006
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STRUCTURE FILE UPDATES: 4 JAN 2006   HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES: 4 JAN 2006   HIGHEST RN 871209-00-6

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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   conducting SmartSELECT searches.

```
***********************************************************************
*                                                                     *
* The CA roles and document type information have been removed from   *
* the IDE default display format and the ED field has been added,     *
* effective March 20, 2005.  A new display format, IDERL, is now      *
* available and contains the CA role and document type information.   *
*                                                                     *
***********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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=> s caagcagaaggc/sqsn
L32      11281 CAAGCAGAAGGC/SQSN

=> s l32 and SQL<375
    21530848 SQL<375
L33·       511 L32 AND SQL<375

=> file caplus; s l33 and PY<1990
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	34.09	502.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-15.75

FILE 'CAPLUS' ENTERED AT 12:05:50 ON 06 JAN 2006
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FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

        190 L33
    13074835 PY<1990
L34   1 L33 AND PY<1990

=> d bib ab hitseq

L34 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
Full Text
AN   1994:296653 CAPLUS
DN   120:296653
TI   A method for preparing a kit for the detection of antibodies to HCV
     (hepatitis C virus) in biological samples such as blood serum
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., India
SO   Indian, 157 pp.
     CODEN: INXXAP
DT   Patent
LA   English
FAN.CNT 8
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 171237	A	19920822	IN 1990-CA801	19900917
	AU 8927967	**A1**	**19890614**	**AU 1989-27967**	**19881118**
	AU 624105	B2	19920604		
	ZA 8808669	**A**	**19890830**	**ZA 1988-8669**	**19881118**
	BR 8807310	A	19900313	BR 1988-7310	19881118
	DD 287104	A5	19910214	DD 1988-321971	19881118
	IN 169067	A	19910831	IN 1988-CA960	19881118
	DD 298524	A5	19920227	DD 1988-344401	19881118
	DD 298525	A5	19920227	DD 1988-344402	19881118
	DD 298526	A5	19920227	DD 1988-344403	19881118
	DD 298527	A5	19920227	DD 1988-344404	19881118
	CN 1073719	A	19930630	CN 1992-110257	19881118
	CN 1074422	B	20011107		
	JP 05081600	B4	19931115	JP 1989-500565	19881118
	JP 09184844	A2	19970715	JP 1996-239921	19881118
	JP 10108674	A2	19980428	JP 1997-99651	19881118
	JP 10290696	A2	19981104	JP 1998-111631	19881118
	JP 10290697	A2	19981104	JP 1998-111632	19881118
	JP 2000023683	A2	20000125	JP 1999-157193	19881118
	RU 2162894	C2	20010210	RU 1988-4742221	19881118
	FI 8903447	**A**	**19890717**	**FI 1989-3447**	**19890717**
	FI 105652	B1	20000929		
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	NO 304990	B1	19990315		
	DK 8903537	**A**	**19890718**	**DK 1989-3537**	**19890718**
	DK 175975	B1	20051010		
	KR 138776	B1	19980515	KR 1989-701343	19890718
	IN 171238	A	19920822	IN 1990-CA802	19900917
	IN 171239	A	19920822	IN 1990-CA805	19900917
	IN 171240	A	19920822	IN 1990-CA808	19900917
	WO 9115771	A1	19911017	WO 1991-US2225	19910329

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        W:   AU, BB, BG, BR, CA, FI, GB, HU, JP, KP, KR, LK, MC, MG, MW, NO,
             PL, RO, SD, SU
        RW:  BF, BJ, CF, CG, CM, GA, ML, MR, SN, TD, TG
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	AU 639560	B2	19930729		
	GB 2257784	A1	19930120	GB 1992-20480	19910329
	BR 9106309	A	19930420	BR 1991-6309	19910329
	HU 62706	A2	19930528	HU 1992-3146	19910329
	HU 217025	B	19991129		
	JP 05508219	T2	19931118	JP 1991-507636	19910329
	JP 2733138	B2	19980330		
	RO 109916	B1	19950728	RO 1975-92012	19910329
	PL 172133	B1	19970829	PL 1991-296329	19910329
	RU 2130969	C1	19990527	RU 1991-5053084	19910329
	EP 450931	A1	19911009	EP 1991-302910	19910403
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	EP 693687	A1	19960124	EP 1995-114016	19910403
	EP 693687	B1	19990728		

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	AT 182684	E	19990815	AT 1995-114016	19910403
	ES 2134388	T3	19991001	ES 1995-114016	19910403
	US 5683864	A	19971104	US 1992-910760	19920707
	FI 106317	B1	20010115	FI 1992-4349	19920928
	NO 9203839	A	19921119	NO 1992-3839	19921001
	NO 310241	B1	20010611		
	US 5714596	A	19980203	US 1993-40564	19930331

	LV 10306	B	19950620	LV 1993-442	19930531
	LV 10344	B	19960220	LV 1993-4381	19930531
	US 5679342	A	19971021	US 1993-97853	19930727
	US 5350671	A	19940927	US 1993-103961	19930809
	LT 3808	B	19960325	LT 1993-1747	19931230
	HR 940493	B1	20001031	HR 1994-940493	19940907
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	US 6312889	B1	20011106	US 1995-440549	19950512
	US 5712088	A	19980127	US 1995-440769	19950515
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	IN 1988-CA960	A	19881118		
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	US 1988-191263	A	19880506		
	US 1988-263584	A	19881026		
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	US 1992-910760	A3	19920707		
	US 1993-40564	A3	19930331		
	US 1993-103961	A1	19930809		
	US 1994-306472	A3	19940915		
	US 1994-307273	A3	19940916		

AB   The title kit contains a (recombinant) polypeptide contg. an HCV epitope,

49

a pH buffer, a detection label, assay instructions, and packaging. Also provided are polynucleotide probes for detection of HCV nucleic acids, a monoclonal antibody to an HCV epitope for detection of HCV antigens by immunoassay, and vaccines comprising immunogenic peptides contg. an HCV epitope for treatment of HCV infections. The sequence of HCV cDNA suggests that HCV is or resembles a flavivirus. Thus, HCV was isolated from plasma of a chimpanzee with chronic non-A, non-B hepatitis and used to generate a λ-gt11 cDNA library which was screened for prodn. of epitopes which bound to serum from patients with non-A, non-B hepatitis. The cDNAs of several clones were sequenced and used to derive a composite sequence; the corresponding polypeptides were expressed in Escherichia coli as fusion products with superoxide dismutase.

```
IT  155182-84-6, DNA (hepatitis C virus clone 5-1-1 cDNA)
    155182-87-9, DNA (hepatitis C virus clone 1-2 cDNA)
    RL: PRP (Properties)
        (nucleotide sequence of)
RN  155182-84-6  CAPLUS
CN  DNA (hepatitis C virus clone 5-1-1 polyprotein fragment-specifying) (9CI)
    (CA INDEX NAME)


SEQ      1 ggcctcctgc ttgaactgct cggcgagcat catacctgac agggaagtcc
        51 tctaccgaga gttcgatgag atggaagagt gctctcagca cttaccgtac
       101 atcgagcaag ggatgatgct cgccgagcag ttcaagcaga aggccctcgg
       151 cctcc



RN  155182-87-9  CAPLUS
CN  DNA (hepatitis C virus clone 1-2 164-nucleotide fragment) (9CI)   (CA INDEX
    NAME)


SEQ      1 ggtcatagtg ggcagggtcg tcttgtccgg gaagccggca atcatacctg
        51 acagggaagt cctctatcga gagttcgatg agatggaaga gtgctctcag
       101 cacttaccgt acatcgagca agggatgatg ctcgccgagc agttcaagca
       151 gaaggccctc ggcc




=> file reg
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.16	512.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-16.50

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> s tgctgtccagac/sqsn
L35        4307 TGCTGTCCAGAC/SQSN


=> s 135 and SQL<375
     21530848 SQL<375
L36         253 L35 AND SQL<375

=> file caplus; s 136 and PY<1990
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	34.53	547.09

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-16.50

FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006   (20060104/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html


```
           96 L36
     13074835 PY<1990
L37          0 L36 AND PY<1990
```

```
=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                                  2.41        549.50


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                    ENTRY        SESSION
CA SUBSCRIBER PRICE                                  0.00        -16.50
```

FILE 'REGISTRY' ENTERED AT 12:08:38 ON 06 JAN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JAN 2006   HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES: 4 JAN 2006   HIGHEST RN 871209-00-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> s catcagtgggat/sqsn
L38       4244 CATCAGTGGGAT/SQSN

=> s 138 and SQL<375
     21530848 SQL<375
L39        202 L38 AND SQL<375
```

```
=> file caplus; s 139 and PY<1990
COST IN U.S. DOLLARS                          SINCE FILE       TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                             34.09         583.59


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE       TOTAL
                                                ENTRY        SESSION
CA SUBSCRIBER PRICE                              0.00         -16.50


FILE 'CAPLUS' ENTERED AT 12:09:46 ON 06 JAN 2006
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FILE COVERS 1907 - 6 Jan 2006  VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006   (20060104/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html


            99 L39
      13074835 PY<1990
L40            0 L39 AND PY<1990

=> d his


    (FILE 'HOME' ENTERED AT 11:45:46 ON 06 JAN 2006)


    FILE 'REGISTRY' ENTERED AT 11:45:55 ON 06 JAN 2006
L1            0 S GAACTGCTCGGC/SQEN
L2         2596 S GAACTGCTCGGC/SQSN
L3          102 S L2 AND SQL<375


    FILE 'CAPLUS' ENTERED AT 11:48:25 ON 06 JAN 2006
L4            8 S L2 AND PY<1990


    FILE 'REGISTRY' ENTERED AT 11:51:20 ON 06 JAN 2006
L5            0 S CACTTACCGTAC/SQEN
L6          780 S CACTTACCGTAC/SQSN
L7           34 S L6 AND SQL<375


    FILE 'CAPLUS' ENTERED AT 11:52:43 ON 06 JAN 2006
L8            1 S L7 AND PY<1990


    FILE 'REGISTRY' ENTERED AT 11:53:28 ON 06 JAN 2006
L9            0 S AAGCAGAAGGCC/SQEN
L10       11437 S AAGCAGAAGGCC/SQSN
```

L11   574 S L10 AND SQL<375

FILE 'CAPLUS' ENTERED AT 11:54:43 ON 06 JAN 2006
L12   1 S L11 AND PY<1990

FILE 'REGISTRY' ENTERED AT 11:55:07 ON 06 JAN 2006
L13   0 S ATGGAAGAGTGC/SQEN
L14   4717 S ATGGAAGAGTGC/SQSN
L15   213 S L14 AND SQL<375

FILE 'CAPLUS' ENTERED AT 11:56:42 ON 06 JAN 2006
L16   1 S L15 AND PY<1990

FILE 'REGISTRY' ENTERED AT 11:57:08 ON 06 JAN 2006
L17   0 S GAACTTCATCAG/SQEN
L18   5419 S GAACTTCATCAG/SQSN
L19   278 S L18 AND SQL<375

FILE 'CAPLUS' ENTERED AT 11:58:34 ON 06 JAN 2006
L20   0 S L19 AND PY<1990

FILE 'REGISTRY' ENTERED AT 11:59:13 ON 06 JAN 2006
L21   0 S AACCCCGCCATT/SQEN
L22   1203 S AACCCCGCCATT/SQSN
L23   45 S L22 AND SQL<375

FILE 'CAPLUS' ENTERED AT 12:00:18 ON 06 JAN 2006
L24   0 S L23 AND PY<1990

FILE 'REGISTRY' ENTERED AT 12:01:52 ON 06 JAN 2006
L25   0 S GTCCGGGAAGCC/SQEN
L26   3071 S GTCCGGGAAGCC/SQSN
L27   249 S L26 AND SQL<375

FILE 'CAPLUS' ENTERED AT 12:03:04 ON 06 JAN 2006
L28   1 S L27 AND PY<1990

FILE 'REGISTRY' ENTERED AT 12:03:23 ON 06 JAN 2006
L29   3673 S GGAAGAGTGCTC/SQSN
L30   185 S L29 AND SQL<375

FILE 'CAPLUS' ENTERED AT 12:04:21 ON 06 JAN 2006
L31   1 S L30 AND PY<1990

FILE 'REGISTRY' ENTERED AT 12:04:44 ON 06 JAN 2006
L32   11281 S CAAGCAGAAGGC/SQSN
L33   511 S L32 AND SQL<375

FILE 'CAPLUS' ENTERED AT 12:05:50 ON 06 JAN 2006
L34   1 S L33 AND PY<1990

FILE 'REGISTRY' ENTERED AT 12:06:14 ON 06 JAN 2006
L35   4307 S TGCTGTCCAGAC/SQSN
L36   253 S L35 AND SQL<375

FILE 'CAPLUS' ENTERED AT 12:07:54 ON 06 JAN 2006
L37   0 S L36 AND PY<1990

FILE 'REGISTRY' ENTERED AT 12:08:38 ON 06 JAN 2006
L38   4244 S CATCAGTGGGAT/SQSN
L39   202 S L38 AND SQL<375

```
        FILE 'CAPLUS' ENTERED AT 12:09:46 ON 06 JAN 2006
L40            0 S L39 AND PY<1990

=> log y
COST IN U.S. DOLLARS                         SINCE FILE      TOTAL
                                                  ENTRY    SESSION
FULL ESTIMATED COST                                2.41     586.00


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE      TOTAL
                                                  ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00     -16.50

STN INTERNATIONAL LOGOFF AT 12:10:06 ON 06 JAN 2006
```